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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR COLORIMETRIC DETERMINATION OF A CHEMICAL OR PHYSICAL PROPERTY OF A TURBID MEDIUM

Example of scan of the microtiter plate						4.47	4.88	5.08	<---Standard pH in column 3
Column 3									Standards
Column 2									Samples
Column 1									Standards
	H	G	F	E	D	C	B	A	<---Standard pH in column 1
	5.16	5.48	5.67	6.00	6.21	6.49	6.65	6.86	
Colour values from Column 2	-6	-5	-5	-6	-9	-11	-11	-11	a*
	-18	-19	-18	-15	-8	-3	4	9	b*
	252	255	254	248	222	195	160	141	Hue°
	6.76	6.89	6.86	6.65	6.16	5.74	5.16	4.62	Sample pH
	0.002%	0.005%	0.014%	0.041%	0.123%	0.370%	1.111%	3.333%	Inoculation level

(57) Abstract: A new method and a system for the simultaneous determination of a biological, chemical and/or physical property of a plurality of individual samples of a turbid is described. The invention relates to a system and colorimetric method for simultaneous determination and measuring properties, such as acidification or pH value, redox potentials, viscosity, diffusion, enzymatic activity, etc. of a plurality of individual samples of a turbid or opaque medium, such as, e.g. milk, whey and related products. In particular, this invention relates to a method for non-invasively and/or non-destructively scanning samples or an array of samples, and determine on the basis of the scanning a specific property, such as pH, of the samples. The method may also be used for multivariate determinations of chemical and/or physical properties.

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SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

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